



Water-Data Report CA-2005

**10308783 LEVIATHAN CREEK ABOVE LEVIATHAN MINE, NEAR MARKLEEVILLE, CA**

Carson River Basin

LOCATION.--Lat 38°42'05", long 119°39'20" referenced to North American Datum of 1927, in SW ¼ NE ¼ sec.22, T.10 N., R.21 E., Alpine County, Hydrologic Unit 16050201, on right bank, 2 mi north of Highway 89, and 6.5 mi east of Markleeville.

DRAINAGE AREA.--4.16 mi<sup>2</sup>.

**WATER-DISCHARGE RECORDS**

PERIOD OF RECORD.--October 1998 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 7,200 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except those below 0.2 ft<sup>3</sup>/s and estimated values, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21 ft<sup>3</sup>/s, May 7, 1999, gage height, 4.40 ft, maximum gage height, 4.67 ft, Jan. 7, 2001, backwater from ice; minimum daily, 0.01 ft<sup>3</sup>/s, Sept. 15, 26-28, 2004.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 10 ft<sup>3</sup>/s and (or) maximum (\*):

| Date   | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|--------|------|-----------------------------------|---------------------|
| Apr 17 | 1830 | 12                                | 4.46                |
| May 03 | 1615 | *16                               | 4.61                |
| May 16 | 0830 | 15                                | *a4.64              |

a Backwater from snow and ice.

**10308783 LEVIATHAN CREEK ABOVE LEVIATHAN MINE, NEAR MARKLEEVILLE, CA—Continued**

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005**  
**DAILY MEAN VALUES**  
[*e*, estimated]

| <b>Day</b>   | <b>Oct</b> | <b>Nov</b> | <b>Dec</b> | <b>Jan</b> | <b>Feb</b> | <b>Mar</b> | <b>Apr</b> | <b>May</b> | <b>Jun</b> | <b>Jul</b> | <b>Aug</b> | <b>Sep</b> |
|--------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| <b>1</b>     | 0.02       | e0.08      | e0.09      | 0.07       | e0.19      | 0.25       | e2.4       | 6.8        | 1.9        | 0.53       | 0.13       | 0.04       |
| <b>2</b>     | 0.02       | 0.10       | e0.08      | 0.07       | e0.19      | 0.27       | e2.7       | 7.2        | 1.9        | 0.50       | 0.12       | 0.04       |
| <b>3</b>     | 0.02       | e0.11      | e0.08      | 0.07       | e0.19      | 0.27       | e2.6       | 7.0        | 1.8        | 0.45       | 0.12       | 0.03       |
| <b>4</b>     | 0.02       | e0.14      | 0.08       | 0.07       | e0.21      | 0.27       | e2.5       | 8.2        | 1.7        | 0.30       | 0.11       | 0.04       |
| <b>5</b>     | 0.02       | 0.14       | 0.07       | 0.07       | 0.25       | 0.28       | e3.1       | 7.1        | 1.6        | 0.29       | 0.10       | 0.04       |
| <b>6</b>     | 0.02       | 0.11       | 0.07       | 0.07       | 0.25       | 0.30       | e4.4       | 6.1        | 1.4        | 0.36       | 0.11       | 0.04       |
| <b>7</b>     | 0.02       | 0.11       | 0.07       | 0.08       | 0.25       | 0.34       | e4.2       | 5.9        | 1.0        | 0.31       | 0.11       | 0.04       |
| <b>8</b>     | 0.02       | 0.17       | 0.07       | 0.08       | 0.25       | 0.44       | e3.5       | 6.4        | 0.87       | 0.29       | 0.08       | 0.04       |
| <b>9</b>     | 0.02       | 0.16       | 0.09       | 0.07       | 0.25       | 0.70       | e2.8       | 6.6        | 0.89       | 0.20       | 0.07       | 0.04       |
| <b>10</b>    | 0.03       | 0.14       | 0.08       | 0.08       | 0.25       | 1.0        | e2.7       | 5.7        | 0.84       | 0.15       | 0.06       | 0.04       |
| <b>11</b>    | 0.03       | 0.14       | 0.09       | 0.07       | 0.25       | 1.4        | e3.7       | 5.2        | 0.72       | 0.19       | 0.06       | 0.05       |
| <b>12</b>    | 0.03       | 0.16       | 0.08       | 0.08       | 0.25       | 1.9        | 4.4        | 5.8        | 0.59       | 0.26       | 0.05       | 0.05       |
| <b>13</b>    | 0.03       | 0.13       | 0.08       | 0.08       | 0.25       | 2.2        | e4.1       | 9.1        | 0.50       | 0.23       | 0.05       | 0.05       |
| <b>14</b>    | 0.03       | 0.10       | 0.08       | 0.09       | 0.25       | 1.7        | 3.6        | 8.0        | 0.45       | 0.20       | 0.04       | 0.05       |
| <b>15</b>    | 0.03       | 0.12       | 0.08       | 0.09       | 0.25       | 1.4        | 4.2        | 9.4        | 0.34       | 0.18       | 0.04       | 0.05       |
| <b>16</b>    | 0.03       | 0.11       | 0.08       | 0.10       | 0.25       | 1.2        | 5.3        | 13         | 0.32       | 0.16       | 0.05       | 0.06       |
| <b>17</b>    | 0.05       | 0.10       | 0.07       | 0.10       | 0.25       | 1.1        | 7.2        | 9.6        | 0.35       | 0.16       | 0.05       | 0.06       |
| <b>18</b>    | 0.09       | 0.09       | 0.08       | 0.10       | 0.24       | 0.99       | 6.9        | 8.5        | 0.24       | 0.13       | 0.05       | 0.06       |
| <b>19</b>    | 0.06       | 0.10       | 0.08       | 0.11       | 0.22       | 1.1        | e5.2       | 8.1        | 0.20       | 0.06       | 0.04       | 0.05       |
| <b>20</b>    | 0.06       | e0.09      | 0.08       | 0.12       | 0.22       | 1.2        | e4.4       | 7.8        | 0.42       | 0.08       | 0.04       | 0.05       |
| <b>21</b>    | 0.09       | e0.09      | 0.08       | 0.14       | 0.23       | e0.71      | 4.7        | 5.1        | 0.78       | 0.14       | 0.04       | 0.12       |
| <b>22</b>    | 0.09       | e0.09      | 0.07       | 0.15       | 0.23       | e0.85      | 4.8        | 4.4        | 0.60       | 0.14       | 0.04       | 0.06       |
| <b>23</b>    | e0.11      | e0.09      | 0.06       | 0.17       | 0.22       | e0.86      | 4.6        | 3.8        | 0.60       | 0.13       | 0.04       | 0.05       |
| <b>24</b>    | e0.11      | e0.09      | 0.06       | 0.18       | 0.21       | 0.83       | 4.3        | 3.5        | 0.61       | 0.12       | 0.04       | 0.06       |
| <b>25</b>    | 0.08       | e0.10      | 0.06       | 0.18       | 0.22       | 0.74       | 4.2        | 3.0        | 0.53       | 0.11       | 0.03       | 0.06       |
| <b>26</b>    | 0.05       | e0.10      | 0.06       | 0.18       | 0.24       | 0.82       | 4.4        | 2.9        | 0.52       | 0.11       | 0.03       | 0.06       |
| <b>27</b>    | e0.05      | e0.10      | 0.07       | 0.19       | 0.24       | 1.6        | 4.5        | 2.4        | 0.46       | 0.14       | 0.03       | 0.08       |
| <b>28</b>    | e0.06      | e0.11      | 0.06       | 0.20       | 0.24       | 2.0        | 5.0        | 2.3        | 0.50       | 0.18       | 0.03       | 0.07       |
| <b>29</b>    | 0.09       | e0.09      | 0.06       | 0.20       | ---        | e1.1       | 5.9        | 2.2        | 0.55       | 0.17       | 0.03       | 0.07       |
| <b>30</b>    | 0.10       | e0.09      | 0.07       | e0.19      | ---        | e0.96      | 5.9        | 2.3        | 0.55       | 0.15       | 0.03       | 0.07       |
| <b>31</b>    | 0.09       | ---        | 0.08       | e0.19      | ---        | e1.2       | ---        | 1.9        | ---        | 0.15       | 0.03       | ---        |
| <b>Total</b> | 1.57       | 3.35       | 2.31       | 3.64       | 6.54       | 29.98      | 128.2      | 185.3      | 23.73      | 6.57       | 1.85       | 1.62       |
| <b>Mean</b>  | 0.05       | 0.11       | 0.07       | 0.12       | 0.23       | 0.97       | 4.27       | 5.98       | 0.79       | 0.21       | 0.06       | 0.05       |
| <b>Max</b>   | 0.11       | 0.17       | 0.09       | 0.20       | 0.25       | 2.2        | 7.2        | 13         | 1.9        | 0.53       | 0.13       | 0.12       |
| <b>Min</b>   | 0.02       | 0.08       | 0.06       | 0.07       | 0.19       | 0.25       | 2.4        | 1.9        | 0.20       | 0.06       | 0.03       | 0.03       |
| <b>Ac-ft</b> | 3.1        | 6.6        | 4.6        | 7.2        | 13         | 59         | 254        | 368        | 47         | 13         | 3.7        | 3.2        |

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2005, BY WATER YEAR (WY)**

|             | <b>Oct</b> | <b>Nov</b> | <b>Dec</b> | <b>Jan</b> | <b>Feb</b> | <b>Mar</b> | <b>Apr</b> | <b>May</b> | <b>Jun</b> | <b>Jul</b> | <b>Aug</b> | <b>Sep</b> |
|-------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| <b>Mean</b> | 0.08       | 0.13       | 0.12       | 0.15       | 0.17       | 0.58       | 1.73       | 2.08       | 0.34       | 0.10       | 0.06       | 0.06       |
| <b>Max</b>  | 0.11       | 0.20       | 0.24       | 0.27       | 0.29       | 0.97       | 4.27       | 6.17       | 0.80       | 0.21       | 0.10       | 0.11       |
| (WY)        | (2000)     | (1999)     | (1999)     | (1999)     | (1999)     | (2005)     | (2005)     | (1999)     | (1999)     | (2005)     | (1999)     | (1999)     |
| <b>Min</b>  | 0.04       | 0.09       | 0.07       | 0.09       | 0.08       | 0.29       | 0.47       | 0.18       | 0.08       | 0.05       | 0.03       | 0.03       |
| (WY)        | (2002)     | (2001)     | (2003)     | (2001)     | (2001)     | (2002)     | (2001)     | (2001)     | (2001)     | (2004)     | (2001)     | (2004)     |

**10308783 LEVIATHAN CREEK ABOVE LEVIATHAN MINE, NEAR MARKLEEVILLE, CA—Continued****SUMMARY STATISTICS**

|                                 | <b>Calendar Year 2004</b> | <b>Water Year 2005</b> | <b>Water Years 1999 - 2005</b> |        |
|---------------------------------|---------------------------|------------------------|--------------------------------|--------|
| <b>Annual total</b>             | 86.22                     | 394.66                 |                                |        |
| <b>Annual mean</b>              | 0.24                      | 1.08                   | 0.38                           |        |
| <b>Highest annual mean</b>      |                           |                        | 1.08                           | 2005   |
| <b>Lowest annual mean</b>       |                           |                        | 0.13                           | 2001   |
| <b>Highest daily mean</b>       | 2.2                       | Mar 19                 | 13                             | May 16 |
| <b>Lowest daily mean</b>        | 0.01                      | Sep 15                 | 0.02                           | Oct 1  |
| <b>Annual seven-day minimum</b> | 0.02                      | Sep 26                 | 0.02                           | Oct 1  |
| <b>Maximum peak flow</b>        |                           |                        | 16                             | May 3  |
| <b>Maximum peak stage</b>       |                           |                        | a4.64                          | May 16 |
| <b>Annual runoff (ac-ft)</b>    | 171                       | 783                    | 276                            |        |
| <b>10 percent exceeds</b>       | 0.79                      | 4.4                    | 0.92                           |        |
| <b>50 percent exceeds</b>       | 0.09                      | 0.15                   | 0.11                           |        |
| <b>90 percent exceeds</b>       | 0.02                      | 0.04                   | 0.04                           |        |

a Backwater from snow and ice.

